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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,160	03/01/2004	Subash Kalbarga	60046.0068US01	9971

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EXAMINER

GUPTA, MUKTESH G

ART UNIT	PAPER NUMBER
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2144

MAIL DATE	DELIVERY MODE
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09/30/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<p align="center">Advisory Action Before the Filing of an Appeal Brief</p>	<p>Application No. 10/790,160</p>	<p>Applicant(s) KALBARGA, SUBASH</p>	
	<p>Examiner Muktesh G. Gupta</p>	<p>Art Unit 2144</p>	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 25 August 2008 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.
b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
(a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
(b) ☐ They raise the issue of new matter (see NOTE below);
(c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☐ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
The status of the claim(s) is (or will be) as follows:
Claim(s) allowed: _____.
Claim(s) objected to: _____.
Claim(s) rejected: _____.
Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.
12. ☒ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). 07/21/2008, 06/10/
13. ☐ Other: _____.

/William C. Vaughn, Jr./
Supervisory Patent Examiner, Art Unit 2144

Continuation of 11. does NOT place the application in condition for allowance because: Refrenced Prior Art of Neufeld and Powderly disclose all the features of the claimed invention. As stated in par. 0011-0012, par. 0039-0043, par. 0052-0053, par. 0059-0063, par. 0066-0072 Neufeld does disclose method of communicating with computer management device at a host (In the managed server 2, the north bridge 12 provides a PCI or PCI-X bus 16 that is coupled to one or more PCI or PCI-X slots 20 for receiving expansion cards. The I/O bridge 17 may provide bridging for one or more expansion busses such as additional PCI or PCI-X buses 19, for example, that may be coupled to various peripheral devices. In this example, the PCI bus 19 is coupled to I/O slots 21 and to a SCSI controller 23 which, in turn, is coupled to a plurality of disk drives 25. It should be noted, in this exemplary embodiment, that the bus 19 is a 64-bit bus that runs at 66 MHz to provide faster data transfer as compared with the PCI bus 16, as discussed below, which is a 32-bit bus that runs as 33 MHz. The south bridge 18 is an integrated multifunctional component, that may include a number of functions, such as, an enhanced direct memory access ("DMA") controller; interrupt controller; timer; integrated drive electronics ("IDE") controller for providing an IDE bus 22; a universal serial bus ("USB") host controller for providing a universal serial bus 24; an system ROM interface 26; a bus controller for providing a low pin count bus ("LPC") 27; and ACPI compliant power management logic. Further attached to the PCI bus 16 is a remote management controller 116. The remote management controller 116 connects to the keyboard controller 38, the network N and/or a management network M, a keyboard 52, and a mouse 54 to provide functionality for accessing, interacting, and monitoring the managed server 2 from the remote console 5) by the computer management device using remote management tools which can communicate with a managed server using either (1) in-band communication or (2) out-of-band communication. In-band communication refers to communicating with the server over a standard network connection, such as the managed server's normal Ethernet connection. Out-of-band communication, which is not performed across the managed server's normal connection to the network, is a much more powerful tool for server management. In out-of-band communication, a "back door" communication channel is established by a remote server management tool (such as a remote console or terminal emulator) using some other interface with the server (such as (1) through the server's modem, (2) via a direct connection to a serial port, (3) through an infrared communication port, or (4) through an Ethernet interface or the Internet). The remote server management controller 116 may be implemented so that it is powered and capable of operation whether or not the managed server 2 is powered up (turned on) or online. Powering the remote server management controller 116 regardless of whether the host managed server is turned on allows the remote server management controller 116 to monitor, analyze and potentially intervene to correct a wide range of system problems that may befall the managed server 2. The logic of the remote server management controller 116 is broken down into three main functional blocks. The first of these three functional blocks is an embedded I/O controller 150, which is essentially an independent computer system that is integrated within the managed server 2. The second and third functional blocks of the remote server management controller 116 are a slave instrumentation module 152 and a remote console redirection module 154. As described below, the embedded I/O controller 150 monitors, configures and controls a wide range of conditions in the managed server 20 via the slave instrumentation module 152 and the remote console redirection module 154. The embedded I/O controller 150 provides a plurality of communication interfaces that can be employed to establish out-of-band communication sessions with the remote server management controller 116. One such communication interface is a UART interface module 174, which is operatively coupled to internal local bus 166. The exemplary UART interface module 174 comprises two standard 16550 UARTs, each of which may provide a separate serial communication interface. Both UARTs are mapped into the address space of the IOP 156 and can be accessed via the PCI bus 172 or by the IOP 156. Either UART may be implemented so that it can be reset through a control register in the address space of the IOP 156. The embedded I/O controller 150 may also include an Ethernet interface 180, which is operatively coupled to the internal local bus 166. User may connect remotely to the remote server management controller 116 via the Ethernet interface 180. Such a connection may be made, for example, using a remote console application running on a client computer anywhere on the network that includes managed server 2. The user may, thus, engage in out-of-band communication with the remote server management controller 116 for the purpose of diagnosing, correcting and/or preventing problems with the managed server 2. The embedded I/O controller 150 may further include a USB interface 184, which is operatively coupled to the internal local bus 166. The USB interface 184 is connected to a USB host controller (not shown) via a USB host controller interface 186. In one exemplary embodiment, the USB interface 184 is connected to one port of a USB host controller (USB bus 24 of FIG. 2), which is typically located in a south bridge 18 portion of the chipset of the managed server 2. When implemented in this way, the IOP 156 of the remote server management controller 116 may establish "virtual USB peripherals" that will be seen and recognized by any USB-aware OS. These virtual peripherals may be presented to any OS to allow communication with the OS in a common, OS-independent manner. The second major functional block of the remote server management controller 116 is the slave instrumentation module 152. The primary purpose of the slave instrumentation module 152 is to provide the hardware infrastructure to implement control and monitoring functions in the managed server 2 as dictated by the IOP 156 in conjunction with dedicated application software such as remote console management software running on a client computer. The slave instrumentation module 152 comprises an automatic server recovery ("ASR") controller 188, which operates to respond automatically to catastrophic failures of the managed server 2. A general purpose input/output module ("GPIO") 189 is provided in the exemplary embodiment of the slave instrumentation module 152. The GPIO provides a versatile communication interface that may be used for a wide variety of purposes. The slave instrumentation module 152 also comprises a JTAG master 190. The JTAG master 190 is operatively coupled to the internal local bus 166. The JTAG master 190 comprises a standard JTAG interface 191, which is operatively coupled to a corresponding standard JTAG interface (not shown) on the motherboard of the managed server 2. Through the JTAG master 190, the remote server management controller 116 can perform a wide range of control functions on the managed server 2. These functions include updating or repairing the BIOS 36 of the managed server 2 by reprogramming the non-volatile memory where the BIOS resides. The slave instrumentation module 152 further comprises an I.sup.2C master 192, which is operatively coupled with the internal local bus 166. The I.sup.2C master 192 has the capability of controlling a plurality of independent I.sup.2C serial channels 193. For purposes of example only, four (4) separate I.sup.2C channels are shown in FIG. 2. The I.sup.2C master 192 comprises a separate I.sup.2C engine for controlling each separate I.sup.2C channel. The slave instrumentation module 152 additionally comprises a block of system support logic 194. The system support logic 194 is operatively coupled to the internal local bus 166. The system support logic 194 provides a variety of housekeeping and security functions for the managed server 2. Examples of these functions include providing the EISA bus ID, flash ROM support, ECC support, hot spare boot support, system post monitor support, floppy write protect, SMI base security measures, open hood detection and the like. The third major

functional block of the remote server management controller 116 is the remote console redirection module 154, which comprises a video encoder 195 and integrated remote console ("IRC") registers 196. The IRC registers 196 receive raw data snooped from the PCI bus 172. Under control of the IOP 156, some of the IRC registers 154 may function as a virtual communication device ("VCD") that may be used to intercept UART communications or communications from other sources. Data intercepted through the VCD may be altered by the IOP and/or redirected to other outputs of the remote server management controller 116. For example, data intercepted by the VCD may be redirected to a remote user via the Ethernet interface 180. As regards to transmitting from the host computer, one or more vendor specific commands to the emulated device over a communication link between the host computer and management device, Neufeld does disclose as stated in par. 0062-0069, user may connect remotely to the remote server management controller 116 via the Ethernet interface 180, such a connection may be made, for example, using a remote console application running on a client computer anywhere on the network that includes managed server 2. The user may, thus, engage in out-of-band communication with the remote server management controller 116 for the purpose of diagnosing, correcting and/or preventing problems with the managed server 2. The embedded I/O controller 150 may further include a USB interface 184, which is operatively coupled to the internal local bus 166. The USB interface 184 is connected to a USB host controller (not shown) via a USB host controller interface 186. In one exemplary embodiment, the USB interface 184 is connected to one port of a USB host controller (USB bus 24 of FIG. 2), which is typically located in a south bridge 18 portion of the chipset of the managed server 2. When implemented in this way, the IOP 156 of the remote server management controller 116 may establish "virtual USB peripherals" that will be seen and recognized by any USB-aware OS. These virtual peripherals may be presented to any OS to allow communication with the OS in a common, OS-independent manner. USB storage devices (such as floppy drives and CD drives) provide additional capability from a remote management point of view because the USB interface 184 allows the remote server management controller 116 to act as a host for hot-pluggable storage devices. This capability allows remote server management controller 116 to mount additional storage volumes to the managed server 2 in an OS-independent fashion. Ideally, the USB storage volumes would reside on an application such as a remote management console, giving the administrator remote CD drive and/or floppy drive functionality. Other emulated devices, such as a standard Ethernet controller, are interesting because the USB interface gives the remote management controller 116 a well-defined, hot-plug interface for communication which does not require a specific proprietary device driver. Those of skill in the field will appreciate that USB emulated devices are supported by the system BIOS 36 of the managed server 2 prior to when the OS is booted. If the OS of the managed server 2 is USB-aware, then it takes up support of the USB devices after boot. The slave instrumentation module 152 also comprises a JTAG master 190. The JTAG master 190 is operatively coupled to the internal local bus 166. The JTAG master 190 comprises a standard JTAG interface 191, which is operatively coupled to a corresponding standard JTAG interface (not shown) on the motherboard of the managed server 2. Through the JTAG master 190, the remote server management controller 116 can perform a wide range of control functions on the managed server 2. These functions include updating or repairing the BIOS 36 of the managed server 2 by reprogramming the non-volatile memory where the BIOS resides. .